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Multiversion-based view maintenance over distributed data sources

Songting Chan, Bin Liu, Elke A. Rundensteiner December 2004 Transactions on Database Systems (TODS), Volume 29 Issue 4

Publisher: ACM Pequest Permissions

Full text available: 📆 🖭 (480.72 KB)

Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Downloads (Overall): 888, Citation Count: 8

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve ...

Keywords: View maintenance, transaction processing

2 Towards materialized view selection for distributed databases

Leonardo Weiss F. Chaves, Erik Buchmann, Fabian Husske, Klemens Böhm March 2009 EDBT '09: Proceedings of the 12th International Conference on Extending Database Technology: Advances in Database Technology

Publisher: ACM 🌺 Request Fermissions

Full text available: 📆 🚉 (514.00 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 170, Downloads (Overall): 244, Citation Count: 0

Materialized views (MV) can significantly improve the query performance of relational databases. In this paper, we consider MVs to optimize complex scenarios where many heterogeneous nodes with different resource constraints (e.g., CPU, IO and network ...

Distributed visual sensing for virtual top-view trajectory generation in football videos

Gabin Kayumbi, Pier Luigi Mazzec, Paolo Spagnolo, Murtaza Tat, Andrea Cavallaro

July 2008 CIVR '08: Proceedings of the 2008 international conference on Content-based image and video retrieval

Publisher: ACM Anguest Fermissions

Full text available: 📆 🖭 (963.31 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 58, Downloads (Overall): 158, Citation Count: 0

In this paper, we propose a distributed sensing algorithm that integrates players' trajectories observed from multiple cameras during a football game. Football scenes present several situations where players occlude each other, thus generating ambiguities ...

Keywords: graph matching, homography, multiple view, tracking

- 4 Group membership and view synchrony in partitionable asynchronous distributed systems:
- specifications,

Özalp Babaoğlu, Renzo Davoli, Alberto Montresor

April 1997 SIGOPS Operating Systems Review , Volume 31 Issue 2

Publisher: ACM

Full text available: Pdf (923.86 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 236, Downloads (Overall): 424, Citation Count: 2

Transient failures, unknown scheduling strategies and variable loads on the computing and communication resources give rise to an asynchronous and partitionable characterization for practical distributed systems with large geographic extent. ...

⁵ A bird's eye view of matrix distributed processing <u>Massimo Di Pierro</u>

May 2003 ICCSA'03: Proceedings of the 2003 international conference on Computational science and its applications: PartI

Publisher: Springer-Verlag

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

We present Matrix Distributed Processing, a C++ library for fast development of efficient parallel algorithms. MDP is based on MPI and consists of a collection of C++ classes and functions such as lattice, site and field. Once an algorithm is written ...

6 Using logical views and dialogue to answer locally-expressed distributed gueries

Nikhii Srivastava

May 2004 Journal of Computing Sciences in Colleges , Volume 19 Issue 5

Publisher: Consortium for Computing Sciences in Colleges

Full text available: Rdf (118.32 KB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 6, Downloads (Overall): 39, Citation Count: 0

It is often desirable to consolidate related information stored across multiple databases by querying all of them at once. However, these databases are often designed by different people, who have different conceptualizations of the domain in question, ...

7 <u>View-based consistency and false sharing effect in distributed shared memory.</u>

April 2001

Z. Huang, C. Sun, M. Purvis, S. Cranefield April 2001 SI GOPS Operating Systems Review, Volume 35 Issue 2

Publisher: ACM

Full text available: Rdf (691.46 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Downloads (Overall): 71, Citation Count: 0

This paper proposes a novel View-based Consistency model for Distributed Shared Memory. A view is a set of ordinary data objects that a processor has the right to access in a data-race-free program. The View-based Consistency model requires ...

Keywords: distributed shared memory, false sharing, sequential consistency

8 A distributed artificial intelligence view on general purpose vision systems (abstract)

Olivier Boissier, Yves Demazeau December 1992 SI GOIS Bulletin , Volume 13 Issue 3

Publisher: ACM

Full text available: Pdf (51.62 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 15, Downloads (Overall): 80, Citation Count: 0

A General Purpose Vision System (GPVS) is an open and domain-independent system that is able to build, maintain, and use an internal representation of the external world from data provided by physical sensors such as cameras. The experience in constructing ...

Relational views as a model for automatic distributed implementation of multi-user applications

T. C. Nicholas Graham, Tore Urnes

December 1992 CSCW '92: Proceedings of the 1992 ACM conference on Computer-supported cooperative work

Publisher: ACM Request Permissions

Full text available: 📆 🖽 (786.52 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 13, Downloads (Overall): 219, Citation Count: 6

Keywords: groupware, implementation, multi-user applications

10 View Management in Distributed Data Base Systems

Elisa Bertino, Laura M. Haas, Bruce G. Lindsay

October 1983 VLDB '83: Proceedings of the 9th International Conference on Very Large Data Bases

Publisher: Morgan Kaufmann Publishers Inc. Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 5

11 A pragmatic view to integrating distributed applications based on CORBA in Nebras Worldlow

Management system

Farshid Zaker, Arash Farzin, Navid Khosravi, Mehammad Bakuu Katrimi, Sasan Dashtinezhad November 2002 OOPSLA '02: Companion of the 17th annual ACM SIGPLAN conference on Object-oriented

programming, systems, languages, and applications

Publisher: ACM 🌣 Flequest Permissions

Full text available: Pdf (77.93 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 132, Citation Count: 0

In this demonstration, we are going to present a workflow management system that is built up with distributed objects based on CORBA. In addition to its architecture, we will show how a workflow manager can act as a higher-level infrastructure over CORBA ...

Keywords: CORBA, business process, distributed objects, use case, workflow manager

12 View-based mechanisms for structured and distributed enactment

Denis Avrilionis, Pierre-Yves Cunin

October 1996 ISAW '96: Joint proceedings of the second international software architecture workshop (ISAW-2) and international workshop on multiple perspectives in software development (Viewpoints '96) on SIGSOFT '96 workshops

Publisher: ACM Request Permissions

Full text available: 📆 Pdf (558.38 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 1, Downloads (Overall): 82, Citation Count: 0

13 A pragmatic view of distributed processing systems

Kenneth J. Thurber
May 1981 ISCA '81: Proceedings of the 8th annual symposium on Computer Architecture

Publisher: IEEE Computer Society Press

Full text available: Rate (39.89 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 7, Downloads (Overall): 81, Citation Count: 0

This course provides an overview of state-of-the-art concepts and problems associated with implementing a distributed processing system. It defines what constitutes a distributed system and discusses contemporary models of distributed systems. The tutorial ...

14 Single logical view over enterprise-wide distributed databases

Andrew E. Wade

June 1993 SIGMOD '93: Proceedings of the 1993 ACM SIGMOD international conference on Management of data

Publisher: ACM 🤌 Request Permissions

Full text available: Pdf (490.97 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 22, Downloads (Overall): 253, Citation Count: 0

Two trends in today's corporate world demand distribution: downsizing from centralized mainframe single database environments; and wider integration, connecting finance, engineering, manufacturing information systems for enterprise-wide modeling and ...

Also published in:

June 1993 SIGMOD Record Volume 22 Issue 2

15 Parallel multisource view maintenance

Xin Zhang, Lingli Ding, Elke A. Rundensteiner

January 2004 The VLDB Journal — The International Journal on Very Large Data Bases , Volume 13 Issue 1 Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (382.15 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 47, Downloads (Overall): 752, Citation Count: 4

In a distributed environment, materialized views are used to integrate data from different information sources and then store them in some centralized location. In order to maintain such materialized views, maintenance queries need to be sent to information ...

Keywords: Concurrent data updates, Data warehousing, Parallel view maintenance, Performance evaluation

16 Asynchronous view maintenance for VLSD databases

Parag Agrawal, Adam Silberstein, Brian F. Cooper, Utkarsh Srivastava, Raghu Ramakrishnan June 2009 SIGMOD '09: Proceedings of the 35th SIGMOD international conference on Management of data

Publisher: ACM Request Permissions

Full text available: 📆 🖂 (415.96 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 389, Downloads (Overall): 461, Citation Count: 0

The query models of the recent generation of very large scale distributed (VLSD) shared-nothing data storage systems, including our own PNUTS and others (e.g. BigTable, Dynamo, Cassandra, etc.) are intentionally simple, focusing on simple lookups ...

Keywords: distributed and parallel databases, indexes, views

17

The case for a unified extensible data-centric mobility infrastructure

Yun Mao, Zashary Ives, Boon Thau Loo, Jonathan M. Smith August 2007 MobiArch '07: Proceedings of 2nd ACM/IEEE international workshop on Mobility in the evolving internet architecture

Publisher: ACM Acquest Permissions

Full text available: 📆 Pdf (202.33 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Downloads (Overall): 41, Citation Count: 2

We present a unified, extensible data-centric mobility infrastructure based on declarative networks and composable distributed views over network, router, and host state. Declarative networks are a recent innovation for building extensible ...

18 Minimizing communication cost in a distributed Bayesian network using a decentralized MDP.

Jiaying Shen, Victor Lesser, Norman Carver

July 2003 AAMAS '03: Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Publisher: ACM Request Permissions Full text available: Rdf (209.97 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 320, Citation Count: 9

In complex distributed applications, a problem is often decomposed into a set of subproblems that are distributed to multiple agents. We formulate this class of problems with a two layer Bayesian Network. Instead of merely providing a statistical view, ...

Keywords: Bayesian networks, action selection, coordination of multiple agents, decentralized MDPs, decision-theoretic planning

19 Effective partition-driven placement with simultaneous level processing and global net views <u>Ke Zhong, Shantanu Dutt</u>

November 2000 ICCAD '00: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Press

Full text available: Pdf (113.97 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 9, Downloads (Overall): 115, Citation Count: 7

In this paper we take a fresh look at the partition-driven placement (PDP) paradigm for standard-cell placement for wire-length minimization. The goal is to develop several new algorithms for incorporation into a PDP framework that can rectify the well-known ...

20 A stepwise approach to distributed database systems by database machines

Sadayuki Hikita, Suguru Kawakami, Hiromi Hanjuda May 1985 SI GSMALL '85: Proceedings of the 1985 ACM SIGSMALL symposium on Small systems

Publisher: ACM Arguest Permissions

Full text available: Pdf (548.86 KB) Additional Information: juli citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 7, Downloads (Overall): 193, Citation Count: 1

Database machines are good components to compose distributed systems along with personal computers and local area networks. Distributed database systems by those machines could be cost-effectively respond to various user's requirements. A stepwise approach ...

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